

## **IN-CIRCUIT CONFIGURATION ARCHITECTURE WITH NON-VOLATILE CONFIGURATION STORE FOR EMBEDDED CONFIGURABLE LOGIC ARRAY**

### **ABSTRACT**

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**[0061]** A system-on-a-chip integrated circuit that includes a configurable logic array, a processor core, and a memory adapted to store instructions for a mission function, and instructions for a configuration load function used to load configuration data on to a non-volatile configuration store on the integrated circuit via an input port on the integrated circuit from an external source. The processor fetches and executes the instructions from the memory. Instructions for a configuration function are stored in the memory, by which configuration data is transferred from the configuration store to configuration points in the configurable logic array.

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